## **Claims**

1. A compound of formula (I)

wherein:

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R represents halogen or C<sub>1-4</sub> alkyl;

R<sub>1</sub> represents hydrogen or C<sub>1-4</sub> alkyl;

R<sub>2</sub> represents hydrogen, C<sub>1-4</sub> alkyl or R<sub>2</sub> together with R<sub>3</sub> represents C<sub>3-7</sub> cycloalkyl; R<sub>3</sub> represents hydrogen, C<sub>1-4</sub> alkyl, C<sub>3-7</sub> cycloalkyl or C<sub>3-6</sub> alkenyl; or R<sub>1</sub> and R<sub>3</sub> together with nitrogen and carbon atom to which they are attached respectively represent a 5 to 6 membered heterocyclic group;

R<sub>4</sub> represents trifluoromethyl, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, trifluoromethoxy or halogen;

15 R<sub>5</sub> is hydrogen and R<sub>6</sub> is NR<sub>7</sub>R<sub>8</sub> or R<sub>5</sub> is NR<sub>8</sub>R<sub>9</sub> and R<sub>6</sub> is hydrogen;

R<sub>7</sub> represents hydrogen or C<sub>1-4</sub> alkyl or R<sub>7</sub> and R<sub>8</sub> together with nitrogen to which they are attached are a saturated 5 to 7 membered heterocyclic group containing oxygen;

 $R_8$  represents hydrogen, phenyl,  $C_{3-7}$  cycloalkyl, (CH2)pC(O)NR $_{10}$ R $_{11}$ , a saturated 5 to 7 membered heterocyclic group containing 1 to 3 heteroatoms selected from oxygen, sulphur and nitrogen and optionally substituted by  $C_{1-4}$  alkyl,  $S(O)_2C_{1-4}$  alkyl or  $S(O)_2C_{1-4}$  alkyl or halogen),  $S(O)_2C_{1-4}$  alkyl, hydroxy, amino, dimethylamino, aminocarbonyl,  $S(O)_2C_{1-4}$  alkoxy or trifluoromethyl;

R9 is hydrogen, C<sub>1-4</sub> alkyl or R9 and R8 together with nitrogen to which they are attached are a 5 to 7 membered heterocyclic group optionally containing another heroatom selected from oxygen, sulphur and nitrogen and optionally substituted by one or two groups selected

from oxygen, sulphur and nitrogen and optionally substituted by one or two groups selfrom C<sub>1-4</sub> alkyl, =O, S(O)<sub>2</sub>C<sub>1-4</sub> alkyl, C(O) C<sub>3-7</sub> cycloalkyl or C(O) C<sub>1-4</sub> alkyl;

R<sub>10</sub> and R<sub>11</sub> are independently hydrogen or C<sub>1-4</sub> alkyl group;

X represents a nitrogen atom and Y is CH or X represents CH and Y is nitrogen; m is zero or an integer from 1 to 3;

35 n is an integer from 1 to 3;

p is zero, 1 or 2;

and pharmaceutically acceptable salts and solvates thereof.

2. A compound as claimed in claim 1 wherein R<sub>6</sub> is NR<sub>7</sub>R<sub>8</sub> and R<sub>5</sub> is hydrogen, Y is nitrogen and X is CH or wherein R<sub>6</sub> is hydrogen and R<sub>5</sub> is NR<sub>8</sub>R<sub>9</sub>, Y is CH and X is nitrogen.

- 3. A compound as claimed in claim 1 or claim 2 wherein R is a halogen (e.g. fluorine) and/or a  $C_{1-4}$  alkyl (e.g. methyl) group and m is zero or an integer from 1 to 2.
- 10 4. A compound as claimed in any claims from 1 to 3 wherein  $R_1$  is a methyl group.
  - 5. A compound as claimed in any claims from 1 to 4 wherein  $R_2$  is a hydrogen atom or a methyl group.
- 15 6. A compound as claimed in any claims from 1 to 5 wherein R<sub>3</sub> is a hydrogen atom or a methyl group.
  - 7. A compound as claimed in any claims from 1 to 6 wherein R<sub>4</sub> is a trifluoromethyl group and/or halogen (i.e chlorine) and n is 2.
  - 8. A compound as claimed in any claims from 1 to 7 wherein  $R_5$  is hydrogen, NH( $C_{3-7}$  cycloalkyl),NH( $C_{1-4}$ alkyl $C_{3-7}$  cycloalkyl), 1-piperazinyl(optionally substituted by one or two groups selected from  $C_{1-4}$  alkyl, =0, S(O)<sub>2</sub> $C_{1-4}$  alkyl, C(O)  $C_{3-7}$  cycloalkyl or C(O)  $C_{1-4}$  alkyl); piperidyl (optionally substituted by one or two groups selected from  $C_{1-4}$  alkyl, =0,) or morpholino.
- A compound as claimed in any claims from 1 to 8 wherein R<sub>6</sub> is hydrogen, N(C<sub>1-6</sub>alkyl)<sub>2</sub>, NH(C<sub>1-6</sub>alkyl), NH(CH<sub>2</sub>)pC(O)NR<sub>10</sub>R<sub>11</sub> wherein p is 1 or 2 and R<sub>9</sub> and R<sub>10</sub> are independently hydrogen or methyl, NH(C<sub>1-6</sub> alkyltrifluoromethyl), NH(C<sub>1-6</sub>alkylC<sub>1-4</sub>alkoxy), NH(C<sub>1-6</sub>alkylfluorine), N(C<sub>1-6</sub> alkyl)(C<sub>1-6</sub> alkylfluorine), NH(C<sub>1-6</sub> alkylphenyl), NH(C<sub>3-7</sub>cycloalkyl), NH(piperidyl), NH (C<sub>1-6</sub> alkyl aminocarbonyl), NH(C<sub>1-6</sub> alkyl-1.3 dioxolan-yl) or morpholino.
  - 10. A compound as claimed in any claims from 1 to 9 wherein
- R<sub>6</sub> is NR<sub>7</sub>R<sub>8</sub> and R<sub>5</sub> is hydrogen, Y is nitrogen and X is CH or wherein R<sub>6</sub> is hydrogen and R<sub>5</sub> is NR<sub>8</sub>R<sub>9</sub>, Y is CH and X is nitrogen;

R<sub>7</sub> is hydrogen or methyl;

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R<sub>8</sub> is methyl, ethyl, dimethylpropyl, cyclopropyl, cyclobutyl, CH<sub>2</sub>C(O)NH<sub>2</sub>, piperidinyl, 1-methyl-piperidinyl, methyl substituted by a group selected from phenyl, cyclopropyl, 4-acetyl-piperazino, fluorine, methoxy, trifluoromethyl and 1.3 dioxolan-yl;

Ro is hydrogen or methyl;

R9 and R8 together with nitrogen to which they are attached is 1-piperazinyl, acetyl-1-piperazinyl, morpholino;

R7 and R8 together with nitrogen to which they are attached is morpholino;

45 R is independently fluorine or methyl;

R<sub>4</sub> is trifluoromethyl and/or chlorine; m is 1 or 2; n is 2.

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- 5 11. A compound as claimed in any claims from 1 to 10 selected from:
  - 4-(S)-Dimethylamino-2-(R)-(4-fluoro-2-methyl-phenyl)-piperidine-1-carboxylic acid [1-(R)-(3,5-bis-trifluoromethyl-phenyl)-ethyl]-methylamide hydrochloride;
  - 4-(S)-Dimethylamino-2-(R)-(4-fluoro-2-methyl-phenyl)-piperidine-1-carboxylic acid (3,5-bis-trifluoromethyl-benzyl)-methylamide hydrochloride;
- 4-(S)-(2-Fluoroethyl)-amino-2-(R)-(4-fluoro-2-methyl-phenyl)-piperidine-1-carboxylic acid [1-(R)-(3,5-bis)-trifluoromethyl-phenyl)-ethyl]-methylamide hydrochloride;
  4-(S)-(2-Fluoro-ethylamino)-2-(R)-(4-fluoro-2-methyl-phenyl)-piperidine-1-carboxylic acid
- 15 12. A compound as claimed in any claims from 1 to 11 for use in therapy.

(3,5-bis-trifluoromethyl-benzyl)-methylamide hydrochloride.

- 13. The use of a compound as claimed in any claims from 1 to 11 in the preparation of a medicament for use in the treatment of conditions mediated by tachykinins, including substance P and other neurokinins.
- 14. The use of a compound as claimed in any claims from 1 to 11 in the treatment of conditions mediated by tachykinins, including substance P and other neurokinins.
- 15. A pharmaceutical composition comprising a compound as claimed in any claims from
  1 to 11 in a mixture with one or more pharmaceutically acceptable carriers or excipients.
  - 16. A method for the treatment of a mammal, including man, in particular in the treatment of conditions mediated by tachykinins, including substance P and other neurokinins, comprising administration of an effective amount of a compound as claimed in any claims from 1 to 11.
  - M. A process for the preparation of a compound as claimed in any claims from 1 to 11 by reductive N-alkylation of a compound of formula (II), wherein  $R_{12}$  is =0 and  $R_{13}$  is hydrogen or  $R_{12}$  is hydrogen and  $R_{13}$  is =0

with an amine derivative (III) or salts thereof in the presence of a suitable metal reducing agent, followed where necessary or desired by one or more of the following steps:

- i) removal of any protecting group;
- ii) isolation of the compound as a salt or a solvate thereof;
- 5 separation of a compound of formula (I) or derivative thereof into the enantiomers thereof.